



FIRE CREW FIREFIGHTING TRAINING

Procedures Handbook 4200

FIREFIGHTER SAFETY

TOPIC: BULLDOZER SAFETY

TIME FRAME: 0:30

LEVEL of INSTRUCTION: Level I

BEHAVIORAL OBJECTIVE:

Condition: Given a written quiz

Behavior: The student will confirm a knowledge of the safety precautions to follow when working around bulldozers

Standard: With a minimum of 70% accuracy

MATERIALS NEEDED:

- Writing board with markers/erasers
- Appropriate audio visual equipment and screen
- Slides/overhead transparencies for this lesson
- Bulldozer if available
- Student Information Sheet 4204.3-1
- Topic Quiz

REFERENCES:

- CDF Fire Protection Training Handbook 4300
- Field Operations Guide (ICS 420-1), FIRESCOPE, January 2001
- Health and Safety Code Handbook, USFS

PREPARATION:

The bulldozer's ability to rapidly construct fire control lines makes it a widely used fire suppression tool. Because of the bulldozer's size, power and limited operator visibility, there are definite safety rules to follow when working near one.



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PRESENTATION

APPLICATION

I. TERMINOLOGY

NOTE: Hand out Student Information Sheet 4204.3-1, Bulldozer Components

Display graphic
4204.3-1

- A. Canopy
- B. Winch
- C. Tracks
 - 1. Idler
 - 2. Drive sprocket
 - 3. Rollers
 - 4. Grouser pads
- D. Bulldozer blade
 - 1. Types
 - a. Angle
 - b. Straight
 - 2. Ram
 - 3. Adjusting arm
 - 4. Push arm
 - 5. End bits
- E. ICS Bulldozer typing
 - 1. Type I - heavy
 - a. Equivalent of Caterpillar D-7 or D-8



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PRESENTATION	APPLICATION
<ul style="list-style-type: none">2. Type II – medium<ul style="list-style-type: none">a. Equivalent of Caterpillar D-5 or D-63. Type III - light<ul style="list-style-type: none">a. Equivalent of Caterpillar D-4F. Bulldozer operatorG. Bulldozer swamper <p>II. BULLDOZER USES</p> <ul style="list-style-type: none">A. Construct fire control linesB. Construct safety zonesC. Scatter or reposition heavy fuels near the fire perimeterD. Separate burning from unburned fuels<ul style="list-style-type: none">1. Cotton bales2. Hay bales3. Log decks4. Sawdust5. Debris pilesE. Construct or improve fireline access roadsF. Construct water bars <p>III. SAFETY</p> <ul style="list-style-type: none">A. Make bulldozer operator and swamper aware of your location<ul style="list-style-type: none">1. Especially in dusty conditions or night operations	



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<p>B. Be alert for rocks and other rolling materials when working below bulldozers</p> <ol style="list-style-type: none">1. Move to safe location if bulldozer working directly above you <p>C. Do not walk directly in front of or in back of a bulldozer</p> <ol style="list-style-type: none">1. Limited operator visibility2. Trees being pushed over by the bulldozer sometimes fall far in front of the bulldozer's position <p>D. Remain at least 50 feet away while bulldozer is operating</p> <ol style="list-style-type: none">1. Further distance may be required during winching operations <p>E. Keep hose lays to one side of the constructed bulldozer line</p> <ol style="list-style-type: none">1. Bulldozer tracks will damage hose if driven over <p>F. Do not approach the bulldozer until it has stopped and the operator has signaled you</p> <ol style="list-style-type: none">1. Remain in full view of operator at all times <p>G. Never get on a moving bulldozer to communicate with bulldozer operator</p> <ol style="list-style-type: none">1. Pads snap shut at the top of the track and may trap a foot <p>H. Do not permit anyone but the bulldozer operator to ride on the bulldozer</p> <p>I. Watch material being moved by a bulldozer</p>	



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<ul style="list-style-type: none">1. Long logs2. Boulders3. Rocks4. StumpsJ. When entering an area where bulldozers have completed work, watch for<ul style="list-style-type: none">1. Loosened rocks2. Weakened trees3. Homeless rattlesnakes4. Irritated beesK. Do not sleep on a bulldozer lineL. Stay clear of bulldozer loading and unloading operationsM. Advise operator of hazards<ul style="list-style-type: none">1. Power lines2. Fence lines3. Shafts, pits, or quarries4. Falling snagsN. Support bulldozer fire control operations with hoselays where possible	<p>Administer Topic Quiz</p>



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SUMMARY:

A bulldozer operator's visibility is limited. Therefore, crews working near and around bulldozers need to pay attention to what they are doing and where they are working in relation to the bulldozer.

EVALUATION:

The student will complete a written quiz at a time determined by the instructor.

ASSIGNMENT:

Review your notes and Student Information Sheet 4204.3-1 in preparation for the upcoming quiz. Study for the next session.